

*****TRUENAS*****

Prefer this-

https://hetmanrecovery.com/recovery_news/how-to-install-and-configure-truenas-core.htm#:~:text=Installing%20TrueNAS.-After%20the%20bootable&text=To%20select%20this%20option%2C%20press,Upgrade%2C%20and%20then%20press%20Enter.

=====

LAB:-

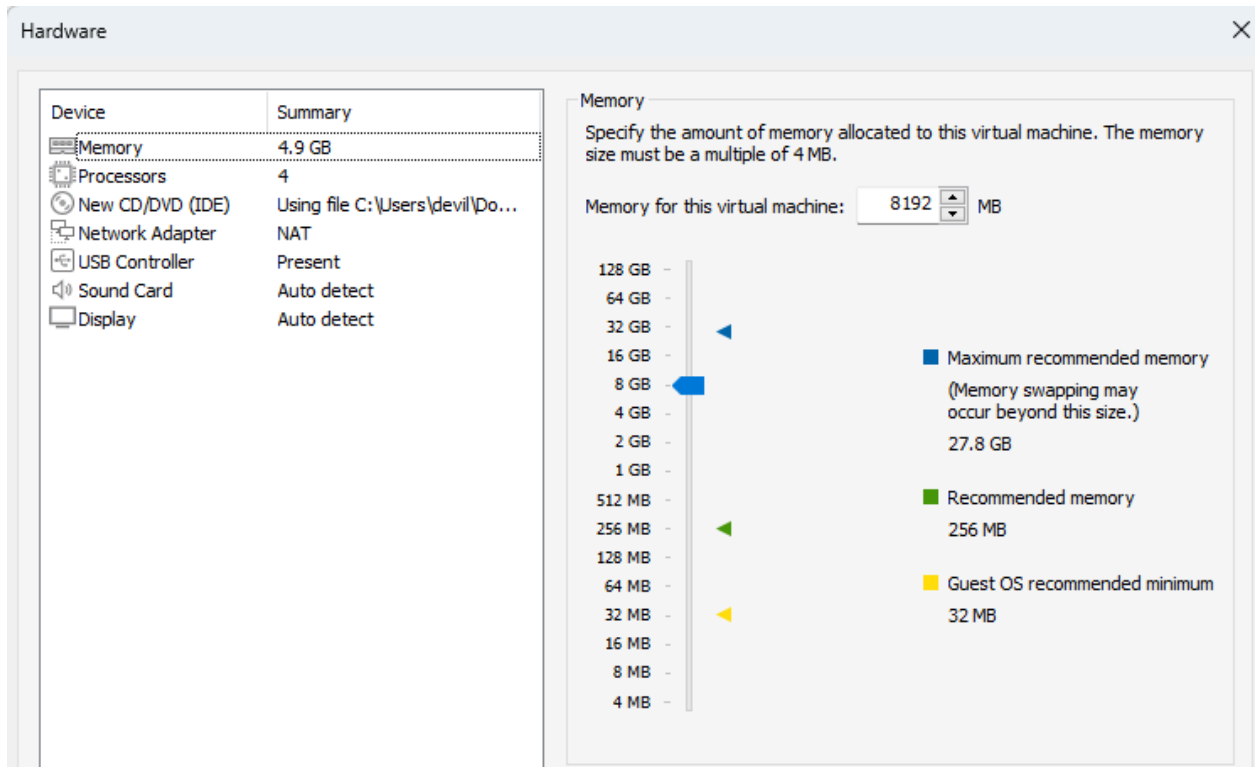
----- INSTALLING TRUENAS -----

TrueNAS :-

- Download truenas by browser
- open VMWare
- create virtual machine

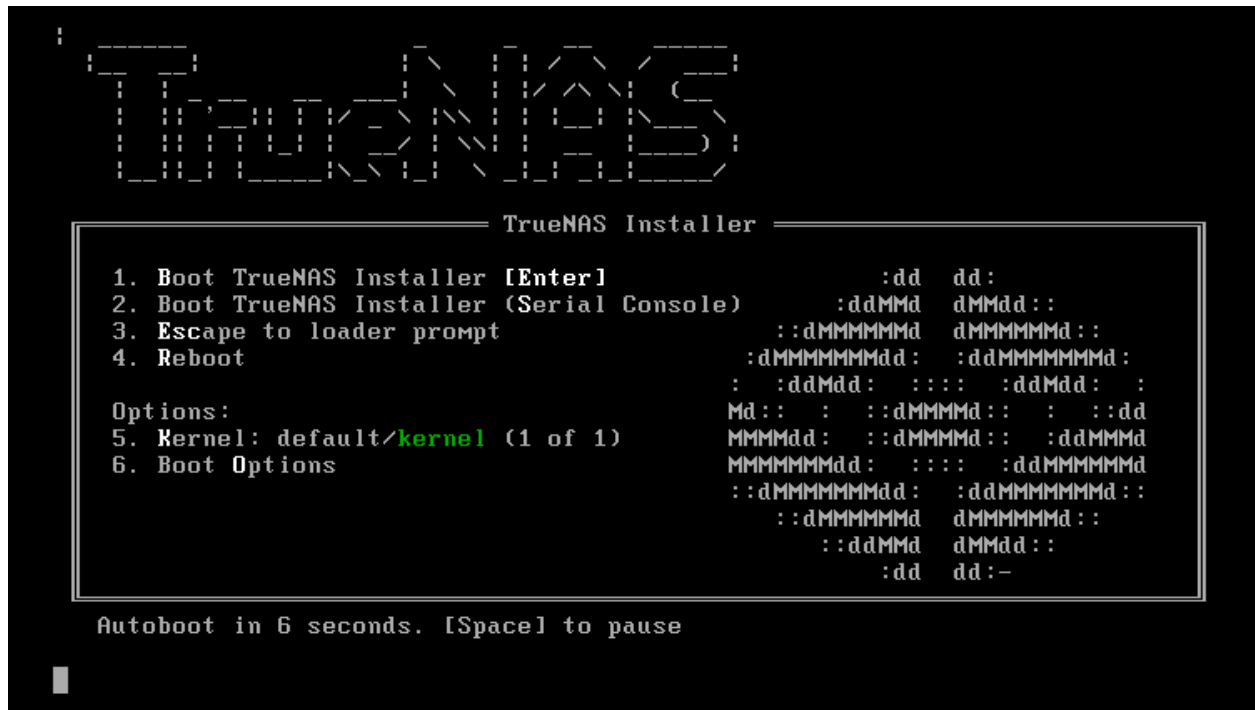
VMWare SETUP:-

- select 'typical'
- choose truenas file from browser
- specify disk capacity(100)
- add two additional disk of 5 gb
- select virtual single disk file
- ram(8GB)
- processor 4gb(2+2)

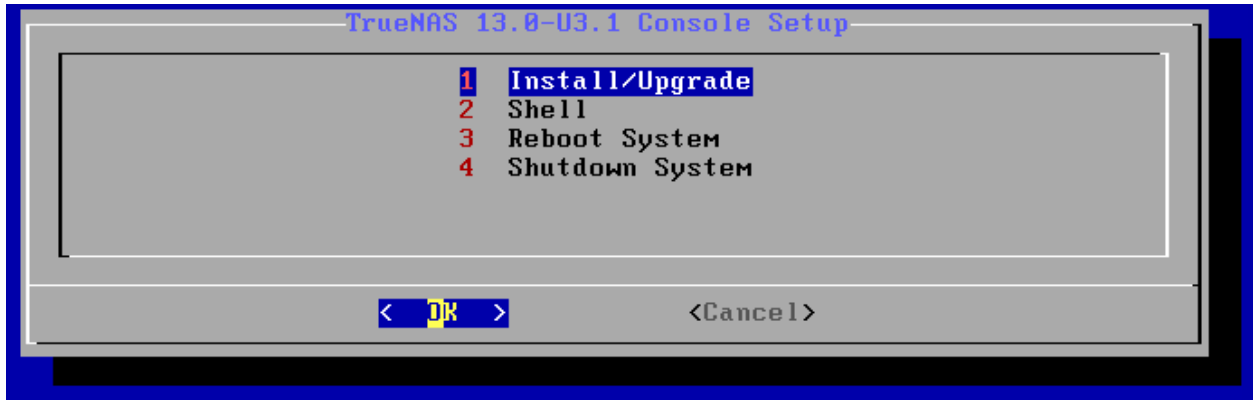


-finish

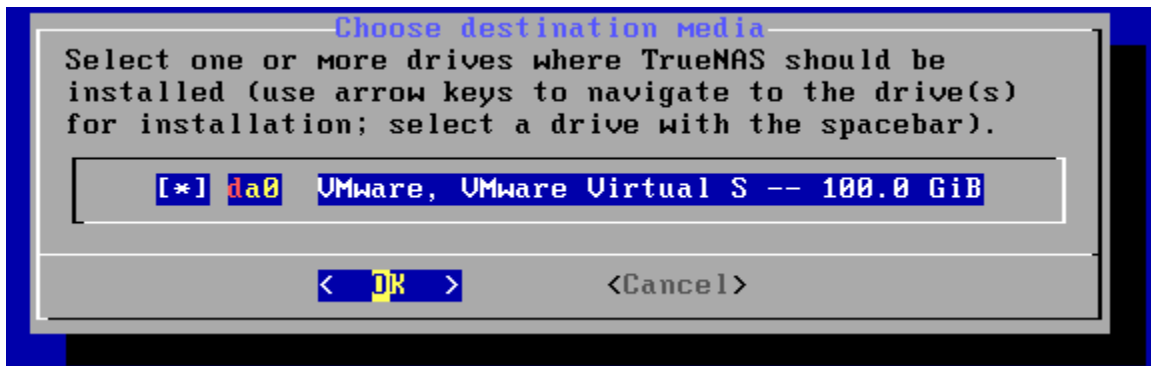
-click 'power on'



-install/upgrade



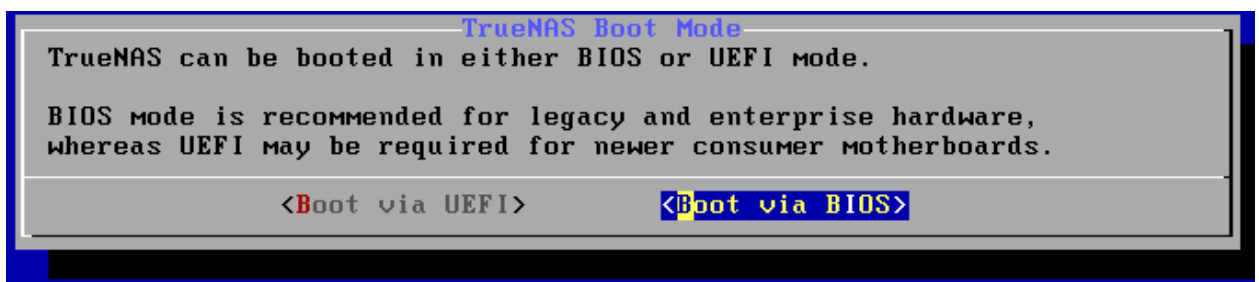
-click 'space'



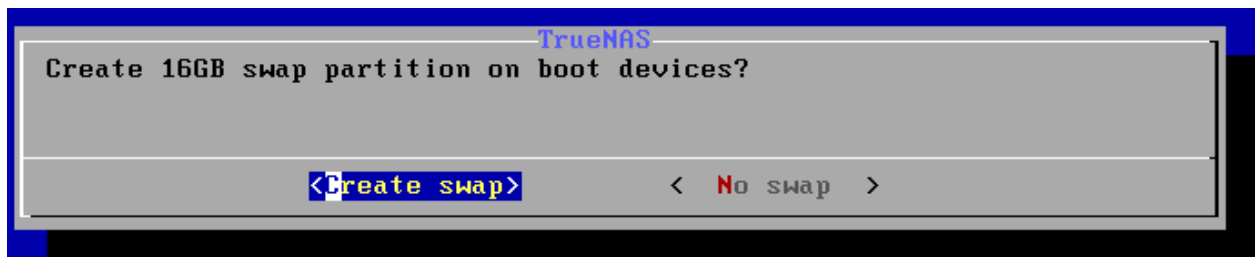
-ok>yes>enter password



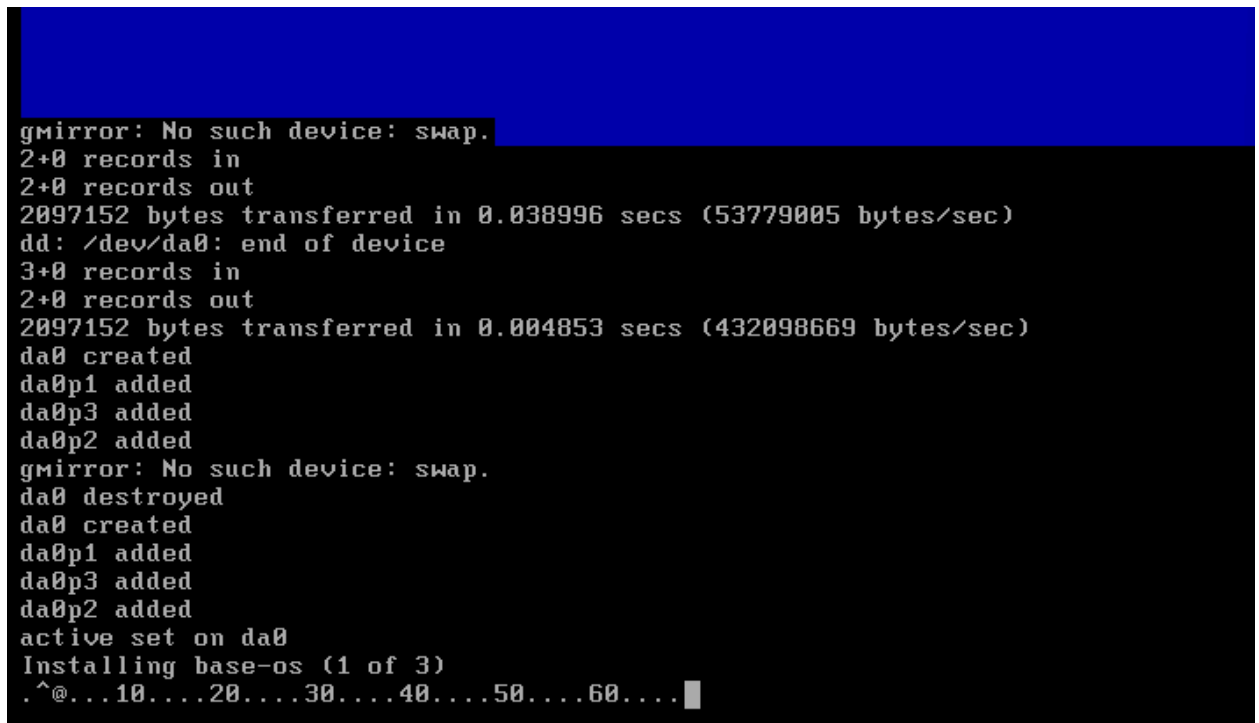
>ok>Boot via BIOS>



Create swap



-ok



-select 'reboot system



-ok

-show your ip(installation completed)

```
FreeBSD/amd64 (truenas.local) (ttyv0)
```

```
Console setup
```

```
-----
```

- 1) Configure Network Interfaces
- 2) Configure Link Aggregation
- 3) Configure VLAN Interface
- 4) Configure Default Route
- 5) Configure Static Routes
- 6) Configure DNS
- 7) Reset Root Password
- 8) Reset Configuration to Defaults
- 9) Shell
- 10) Reboot
- 11) Shut Down

```
The web user interface is at:
```

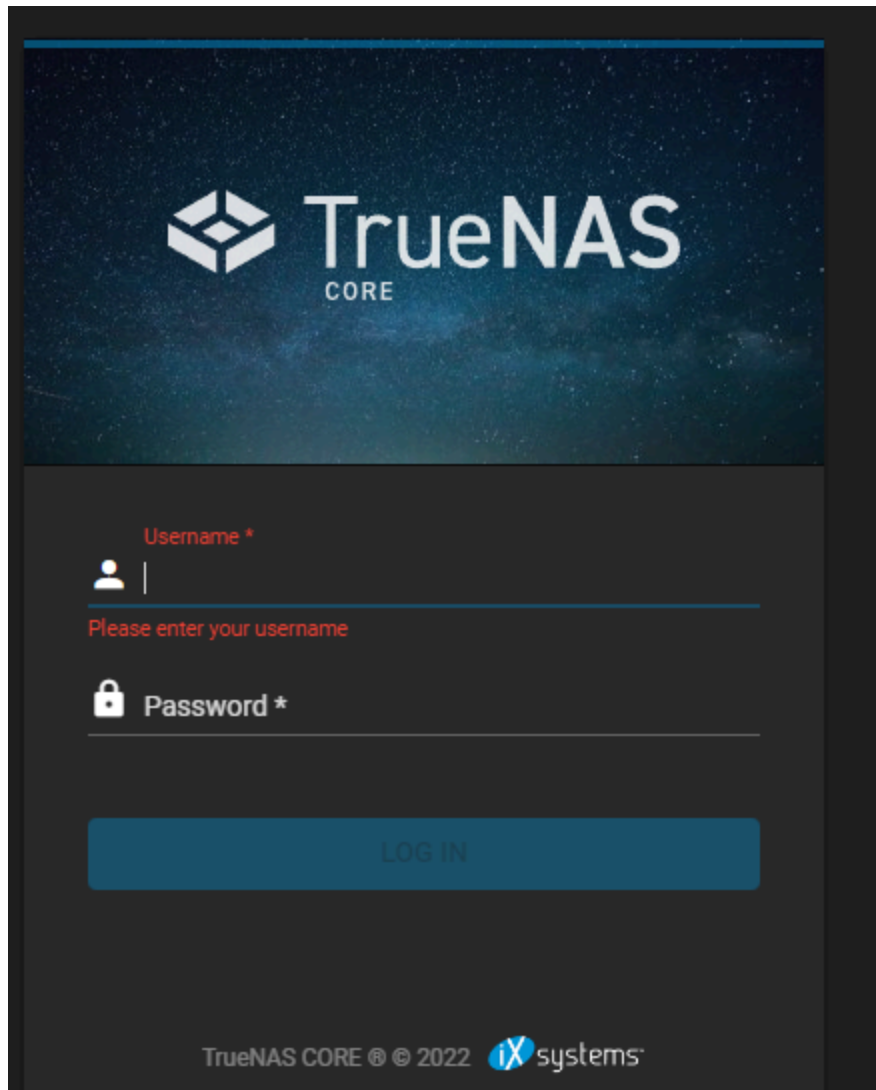
```
http://192.168.174.147
```

```
https://192.168.174.147
```

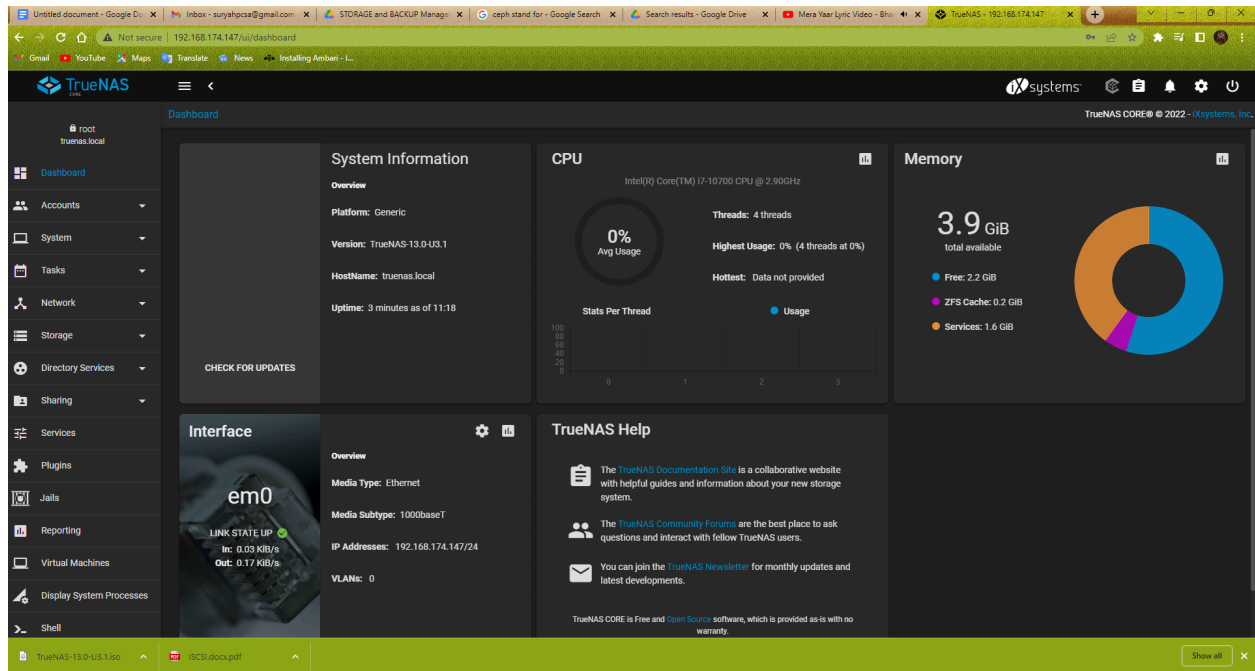
```
Enter an option from 1-11: █
```

LOGIN TRUENAS:-

-Enter IP address on browser



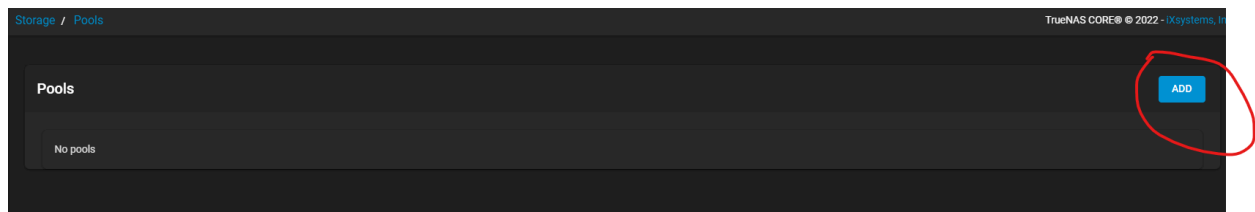
- user >root
- password>****(Enter password which given by you)
- Click 'OK'(you)



----- SR-IOV -----

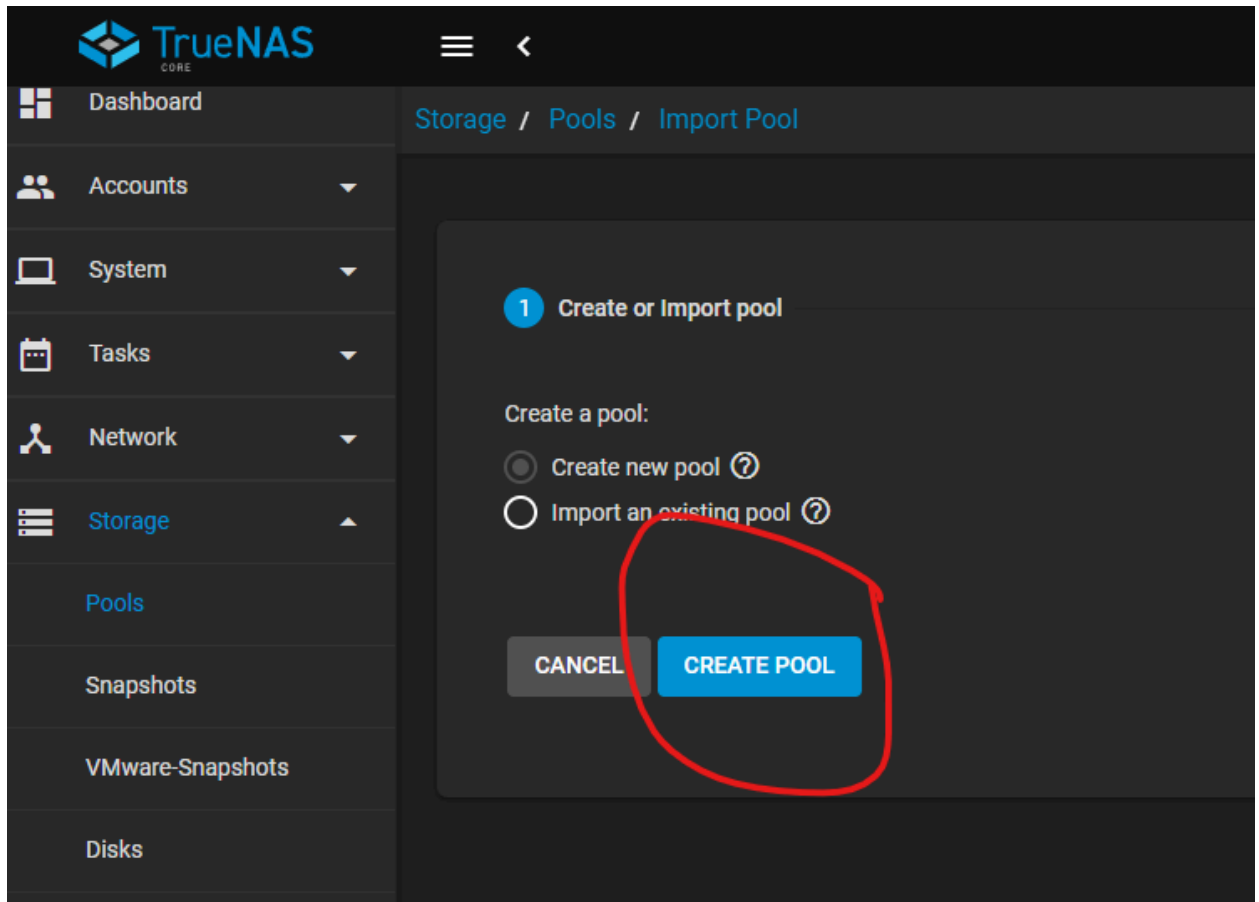
CREATE POOL:-

-Go to storage from left side



-pools

- add > select 'create new pool'



- create pool

-surya_lab>suggest layout>select all disk



Pool Manager

Name *

surva_lab



Encryption ?

RESET LAYOUT

SUGGEST LAYOUT



ADD VDEV



Available Disks

<input checked="" type="checkbox"/>	Disk	Type	Capacity	
<input checked="" type="checkbox"/>	da1	HDD	5 GiB	>
<input checked="" type="checkbox"/>	da2	HDD	5 GiB	>
<input checked="" type="checkbox"/>	da3	HDD	5 GiB	>
<input checked="" type="checkbox"/>	da4	HDD	5 GiB	>

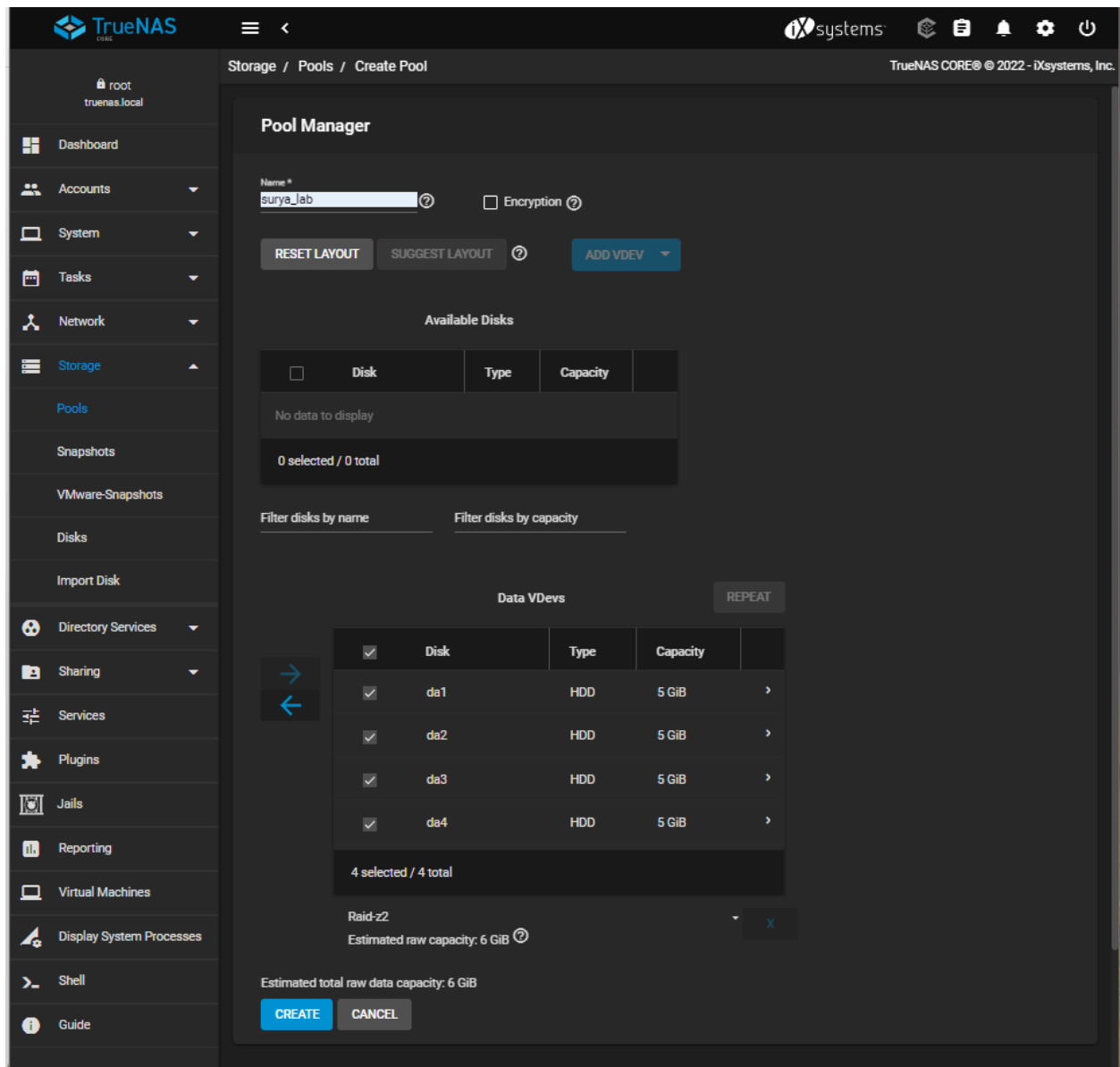
Warning: There are 4 disks available that have non-unique serial numbers. Non-unique serial numbers can be caused by a cabling issue and adding such disks to a pool can result in lost data.

☒ Show disks with non-unique serial numbers

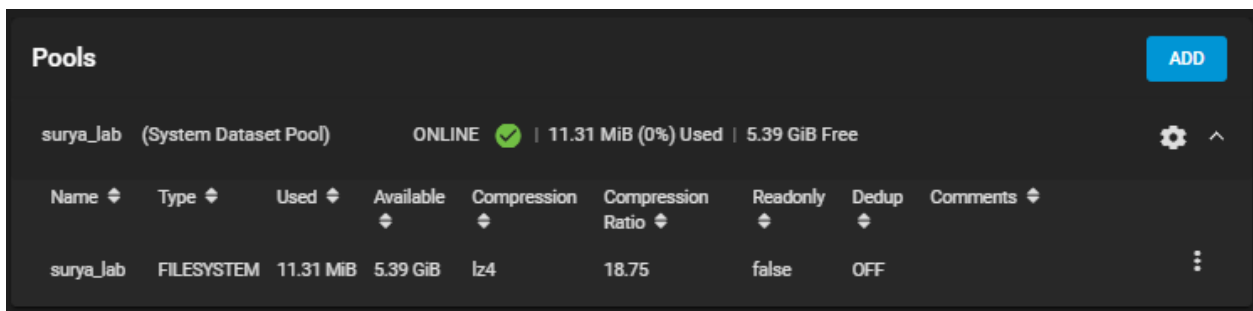
4 selected / 4 total

Filter disks by name

Filter disks by capacity



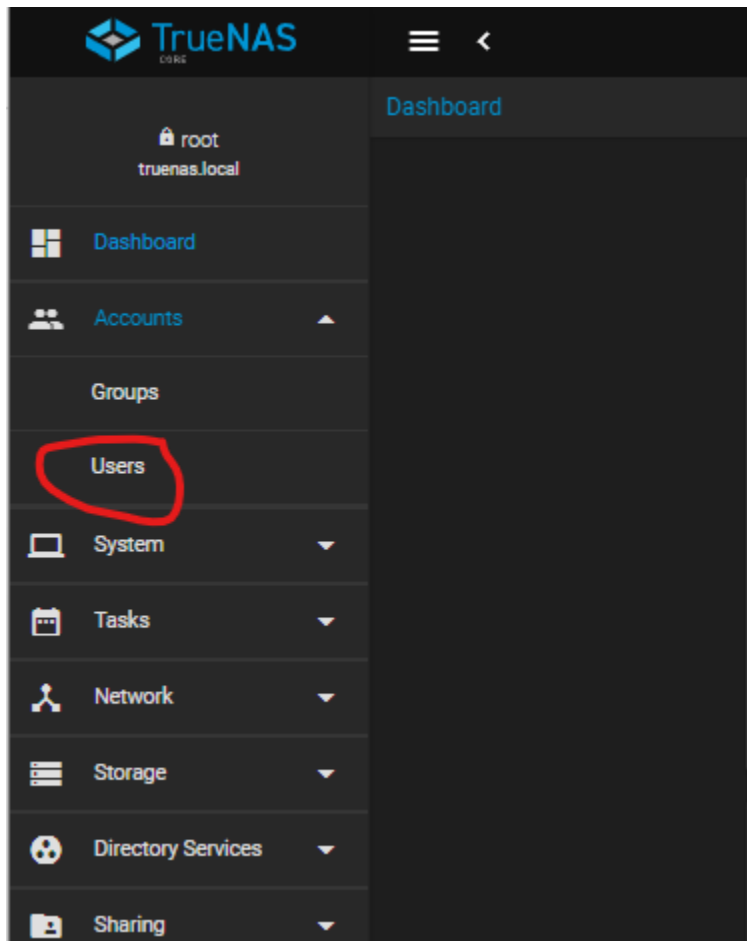
click 'create'



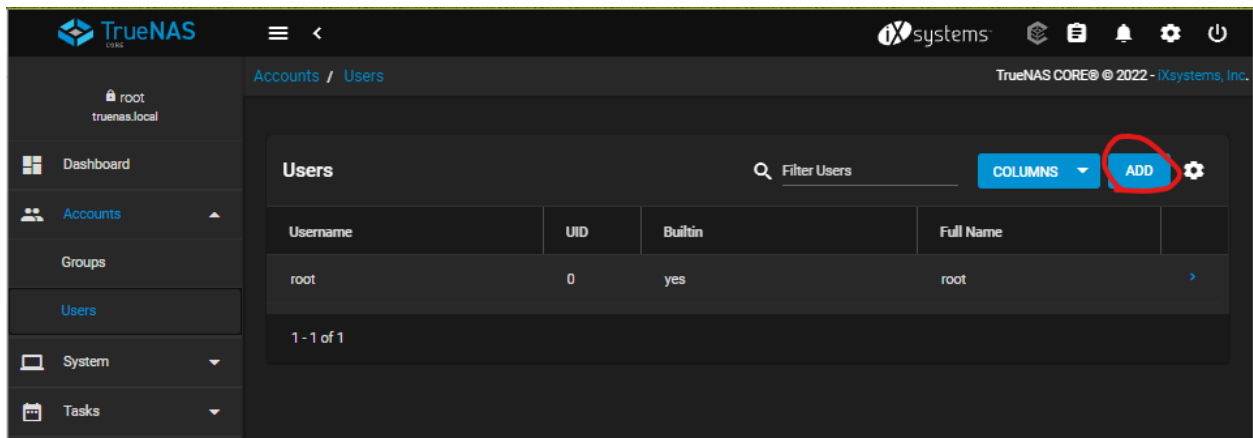
Pool created

Add user

-click account > users



Click add for add user



Enter mandatory detail for create user

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[Accounts](#) / [Users](#) / [Add](#)

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Identification

Full Name *

suryadev chaudhary

?

Username *

schaudha

?

Email

suryahpcsa@gmail.com

?

Password *

....

?

Confirm Password *

....

User ID and Groups

User ID *

1000

?

☒ New Primary Group

?

Primary Group

?

surya user created

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[Accounts](#) / [Users](#)

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Users

Filter Users

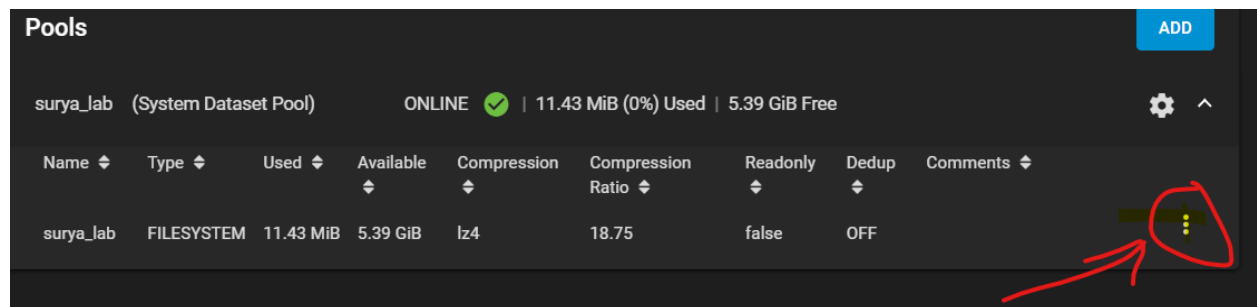
COLUMNS

ADD

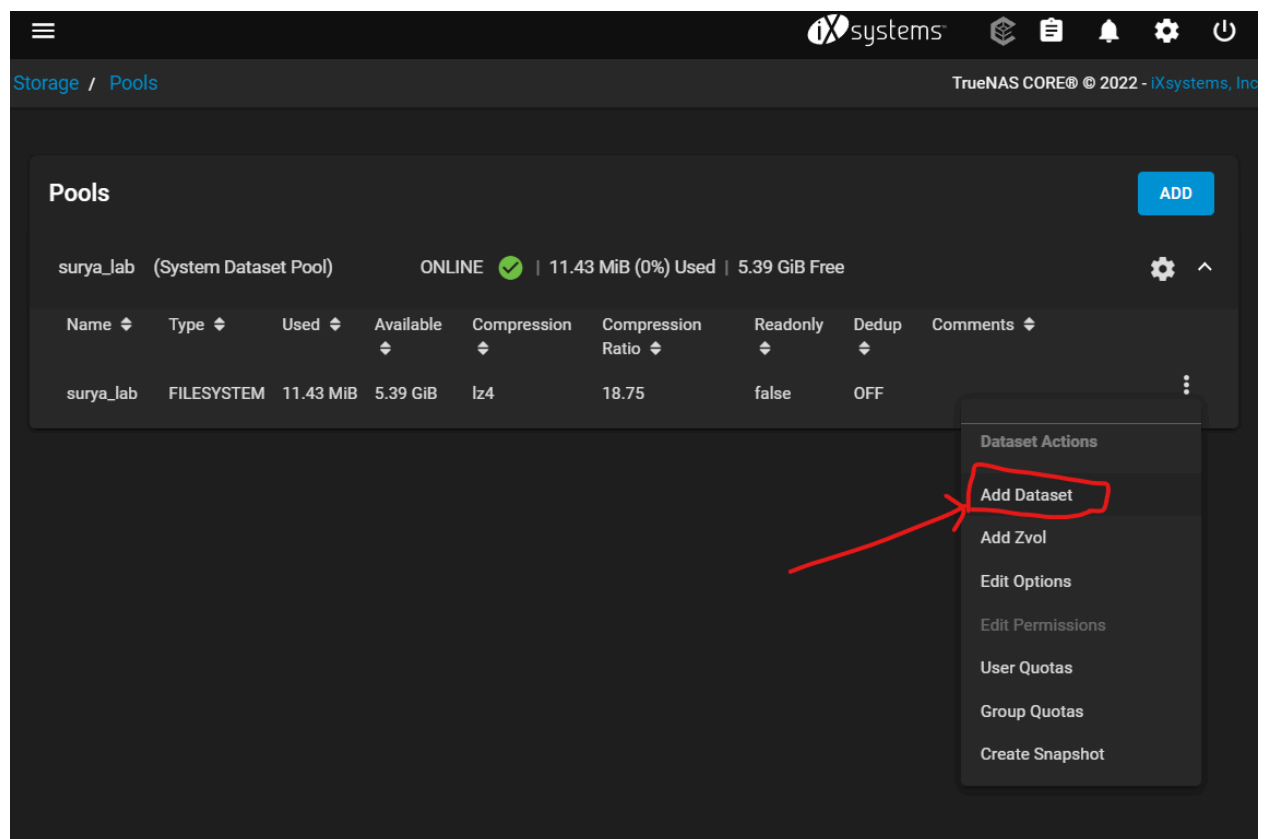
Username	UID	Builtin	Full Name	
root	0	yes	root	>
surya	1000	no	suryadev chaudhary	>

1 - 2 of 2

configure SMB connection
Storage > pools
Click on 3-dot for create dataset



Add dataset



write name and click submit

ixsystems

Storage / Pools / Add Dataset

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Name *

surya_dataset

?

Comments

?

Sync

Inherit (standard)

?

Compression level

Inherit (lz4)

?

Enable Atime

Inherit (off)

?

Encryption Options

☒ Inherit (non-encrypted) ?

Other Options

ZFS Deduplication

Inherit (off)

?

Case Sensitivity

Sensitive

?

Share Type

Generic

?

SUBMIT

CANCEL

ADVANCED OPTIONS

click 3-dot of created database for edit permission

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Storage / Pools

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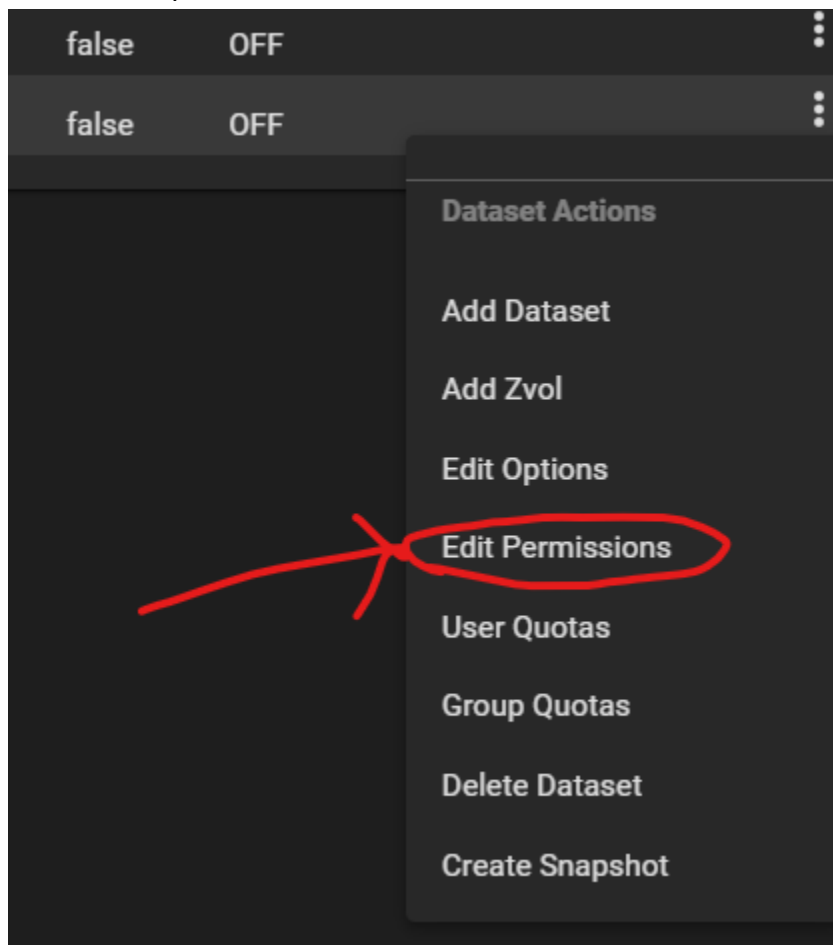
Pools

ADD

surya_lab (System Dataset Pool) ONLINE ✓ | 11.7 MiB (0%) Used | 5.38 GiB Free

Name	Type	Used	Available	Compression	Compression Ratio	Readonly	Dedup	Comments	
▼ surya_lab	FILESYSTEM	11.7 MiB	5.38 GiB	lz4	18.59	false	OFF		⋮
surya_dataset	FILESYSTEM	139.5 KiB	5.38 GiB	Inherits (lz4)	1.00	false	OFF		⋮

Click on edit permission



write user name & group name and click save

Dataset Path

Path
/mnt/surya_lab/surya_dataset

Owner

User
surya

☒ Apply User

Group
surya

☒ Apply Group

Access

Access Mode

	Read	Write	Execute
User	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Advanced

☐ Apply Permissions Recursively

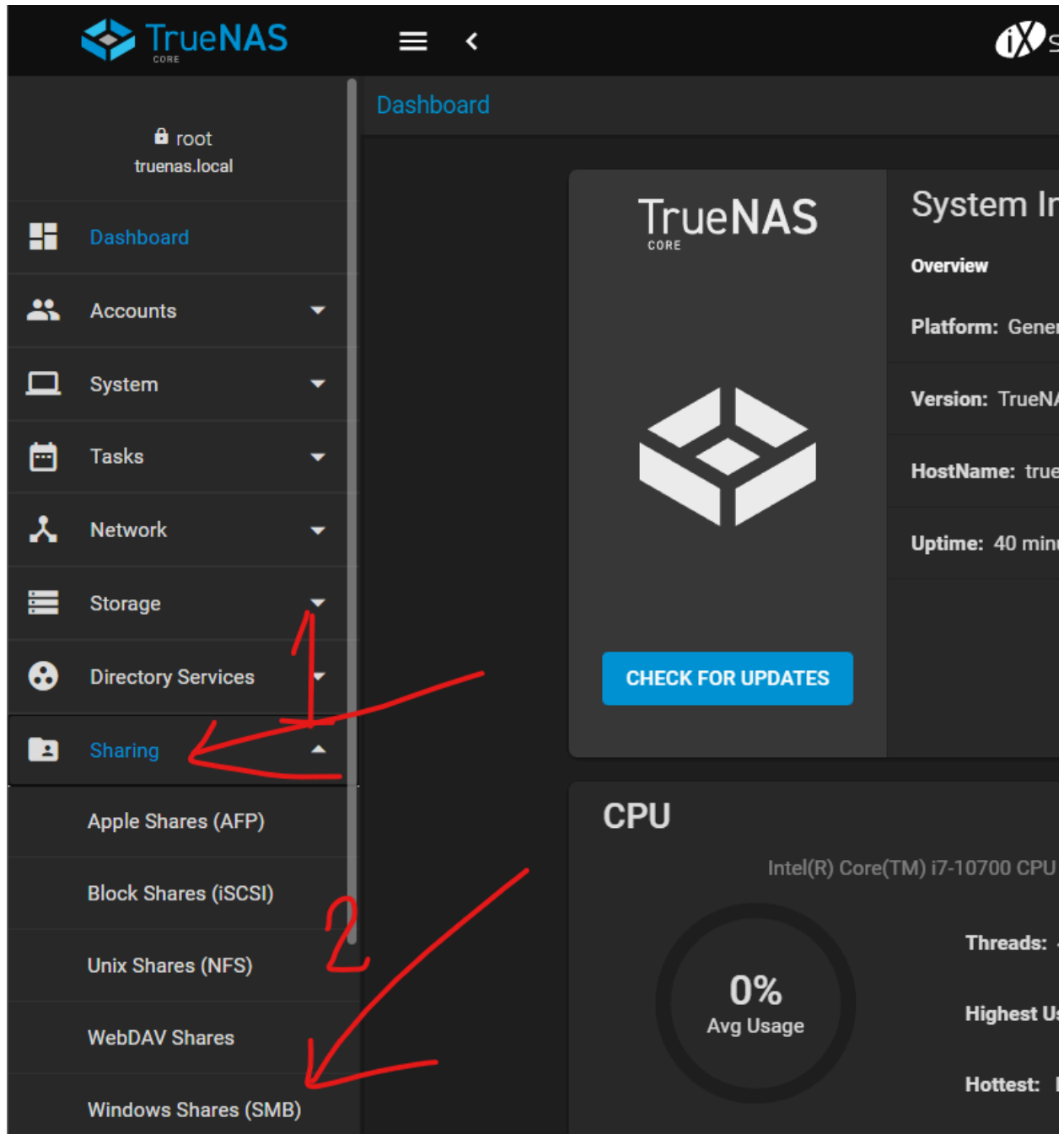
☐ Traverse

SAVE

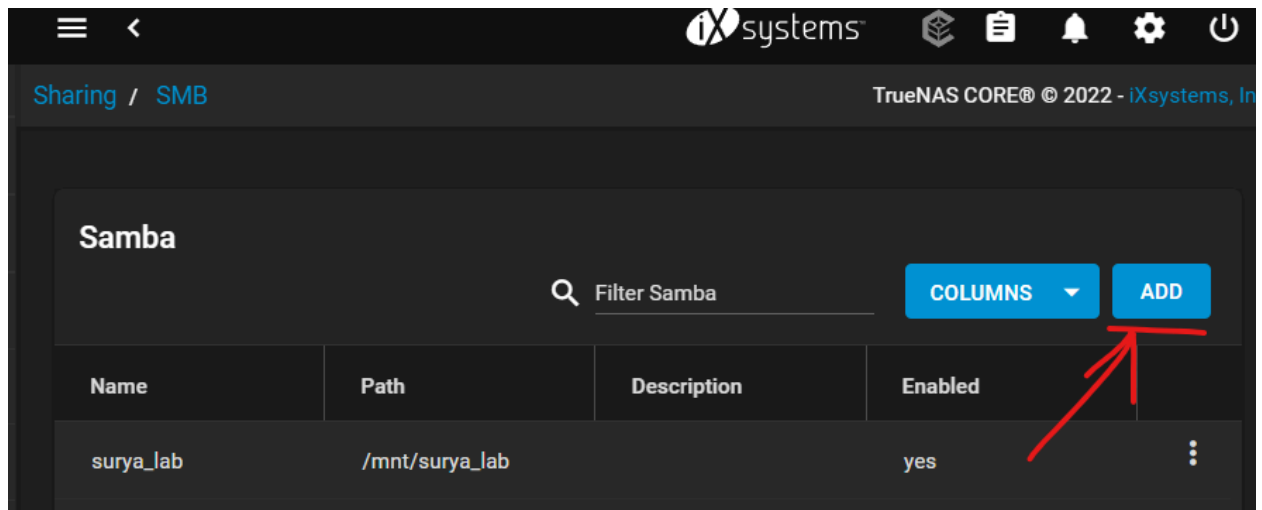
CANCEL

USE ACL MANAGER

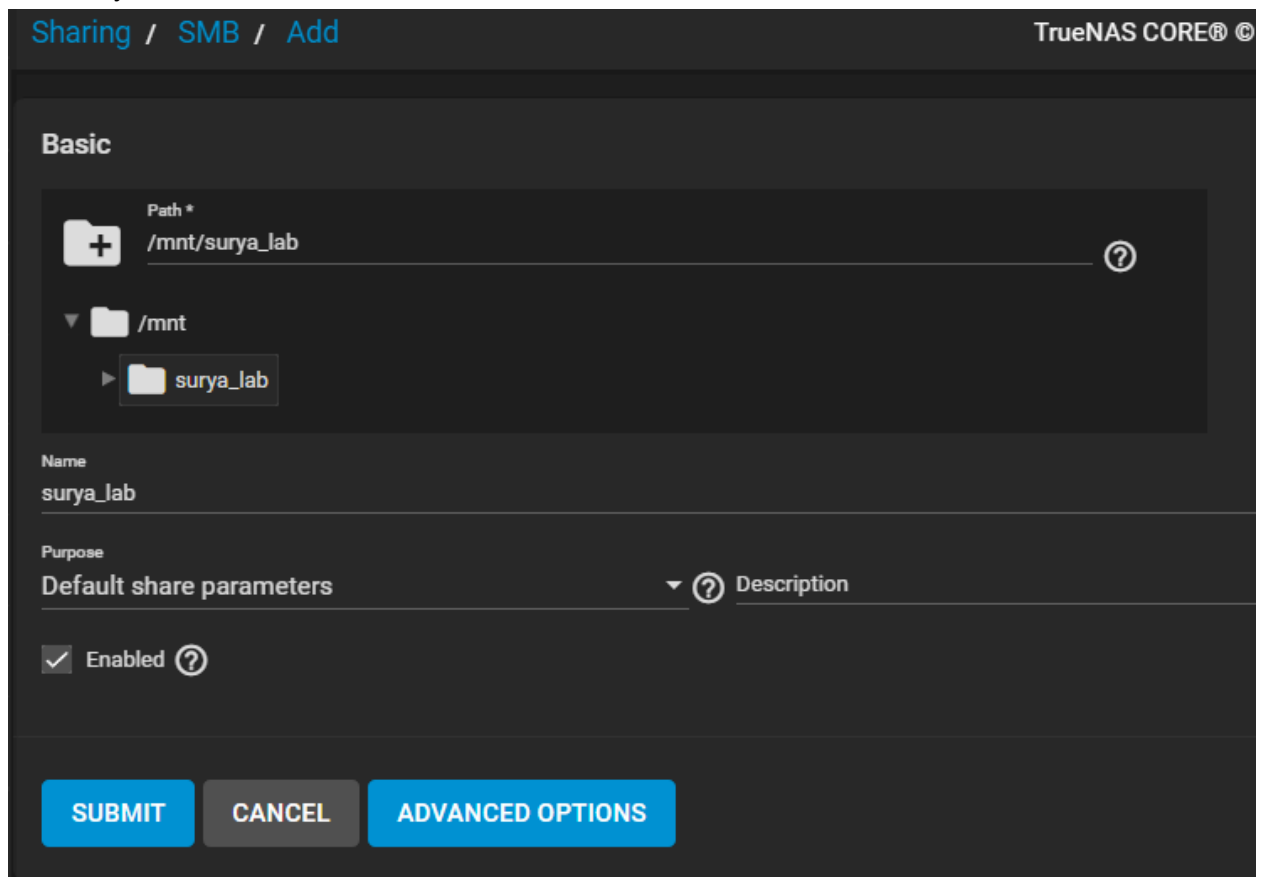
now go to sharing > window shares(SMB)



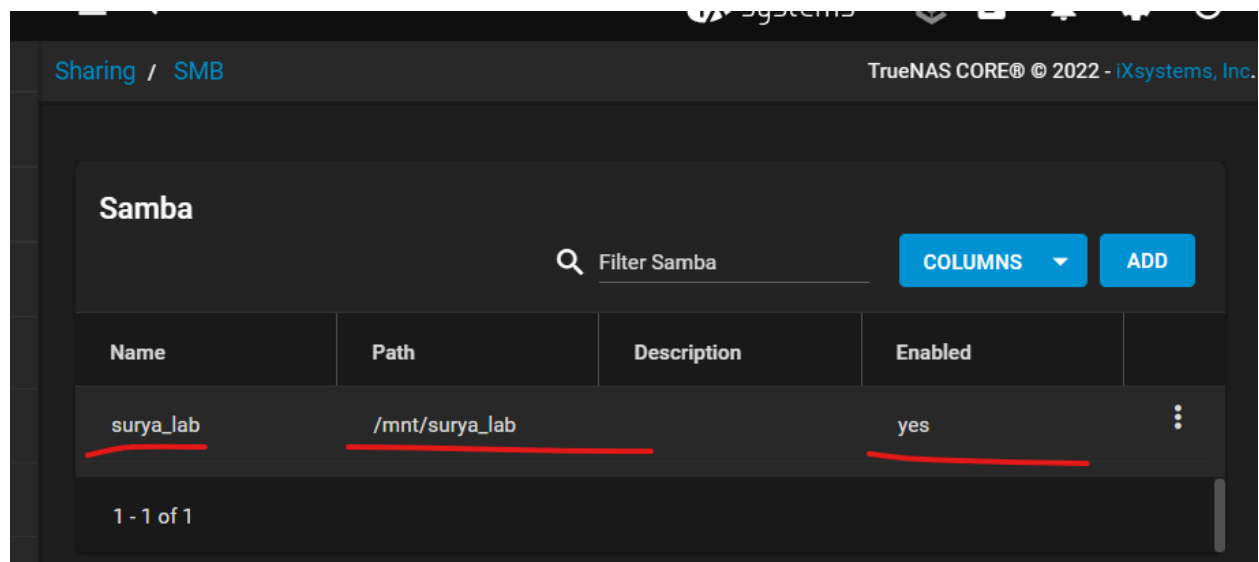
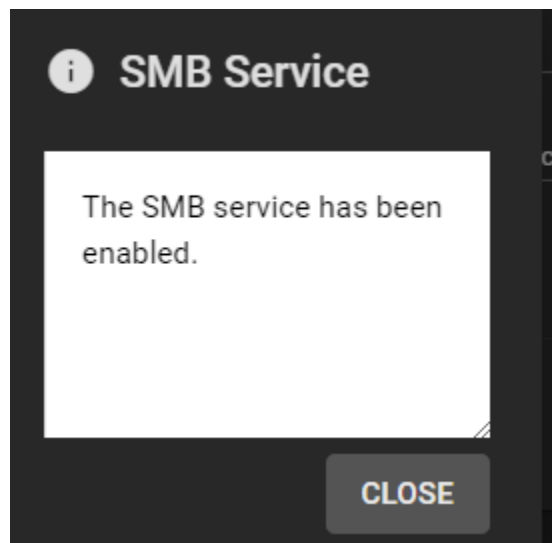
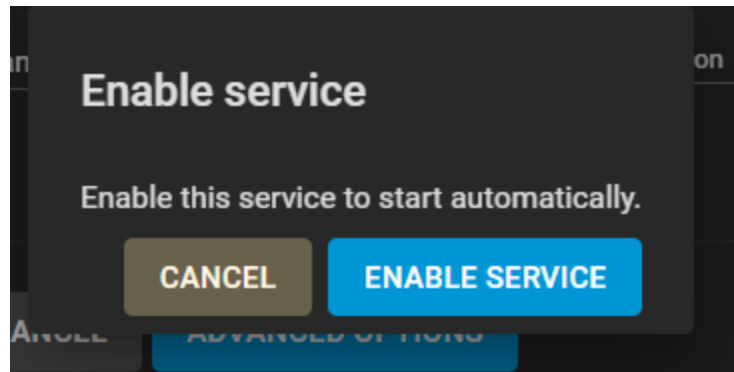
click add for enable service of dataset



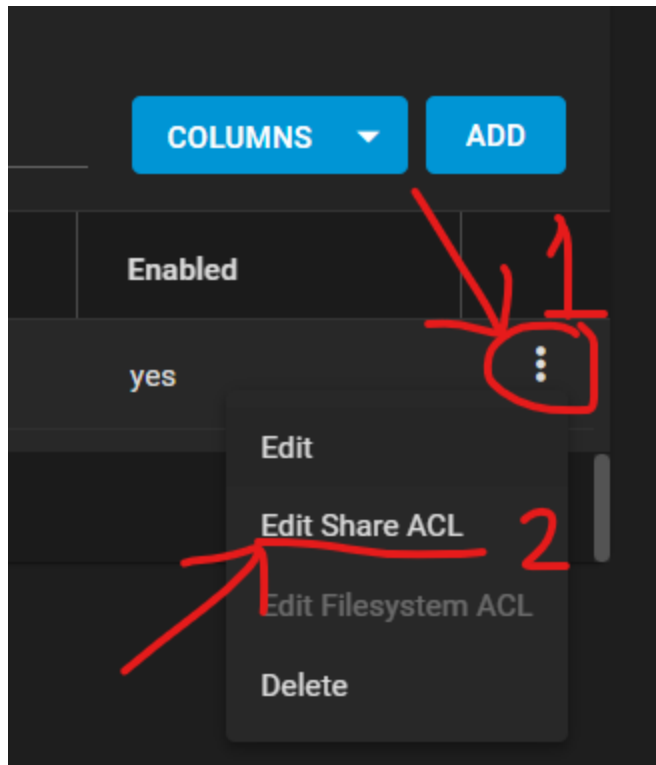
select your dataset and click submit



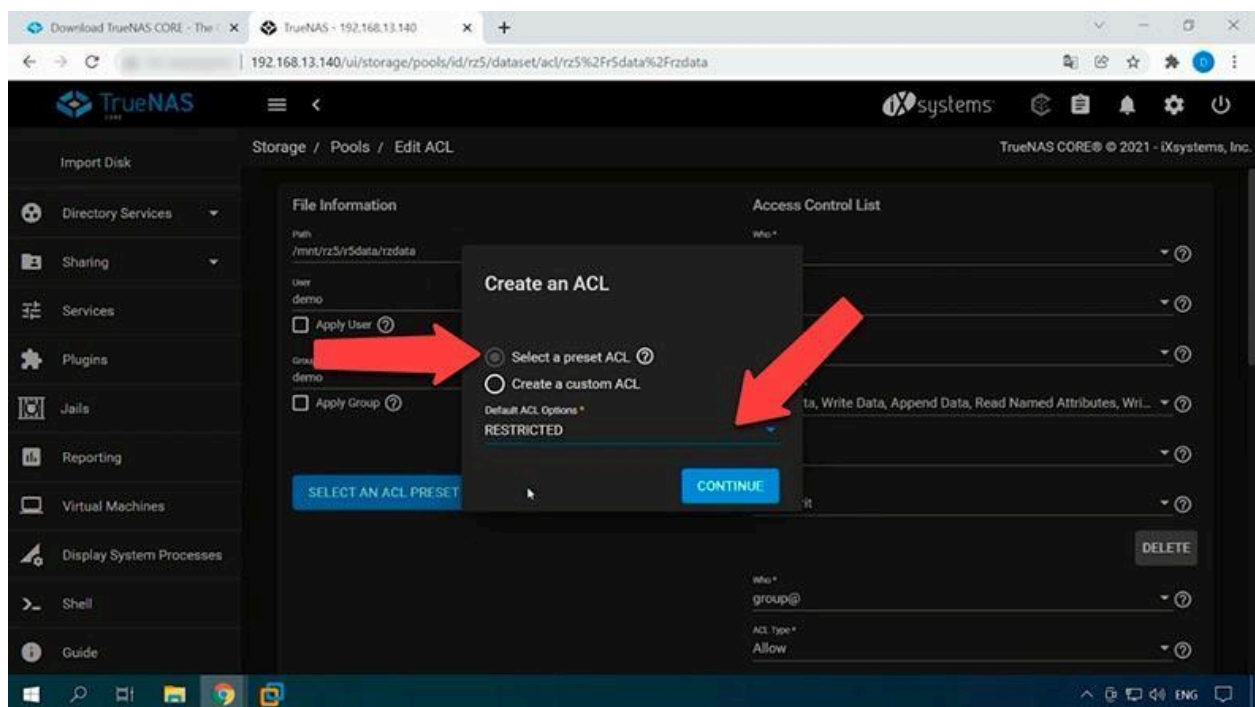
Enable service



sharing>SMB>click 3-dot>edit share ACL

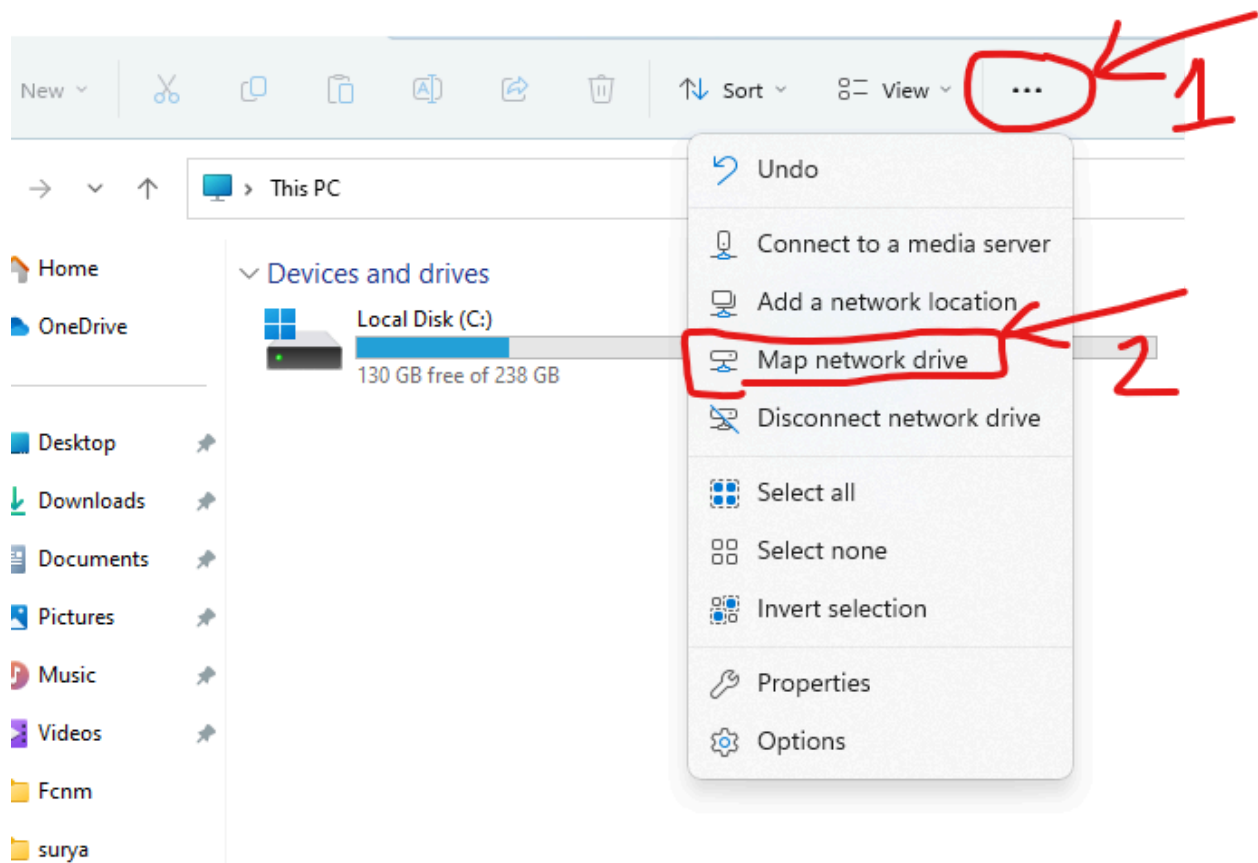


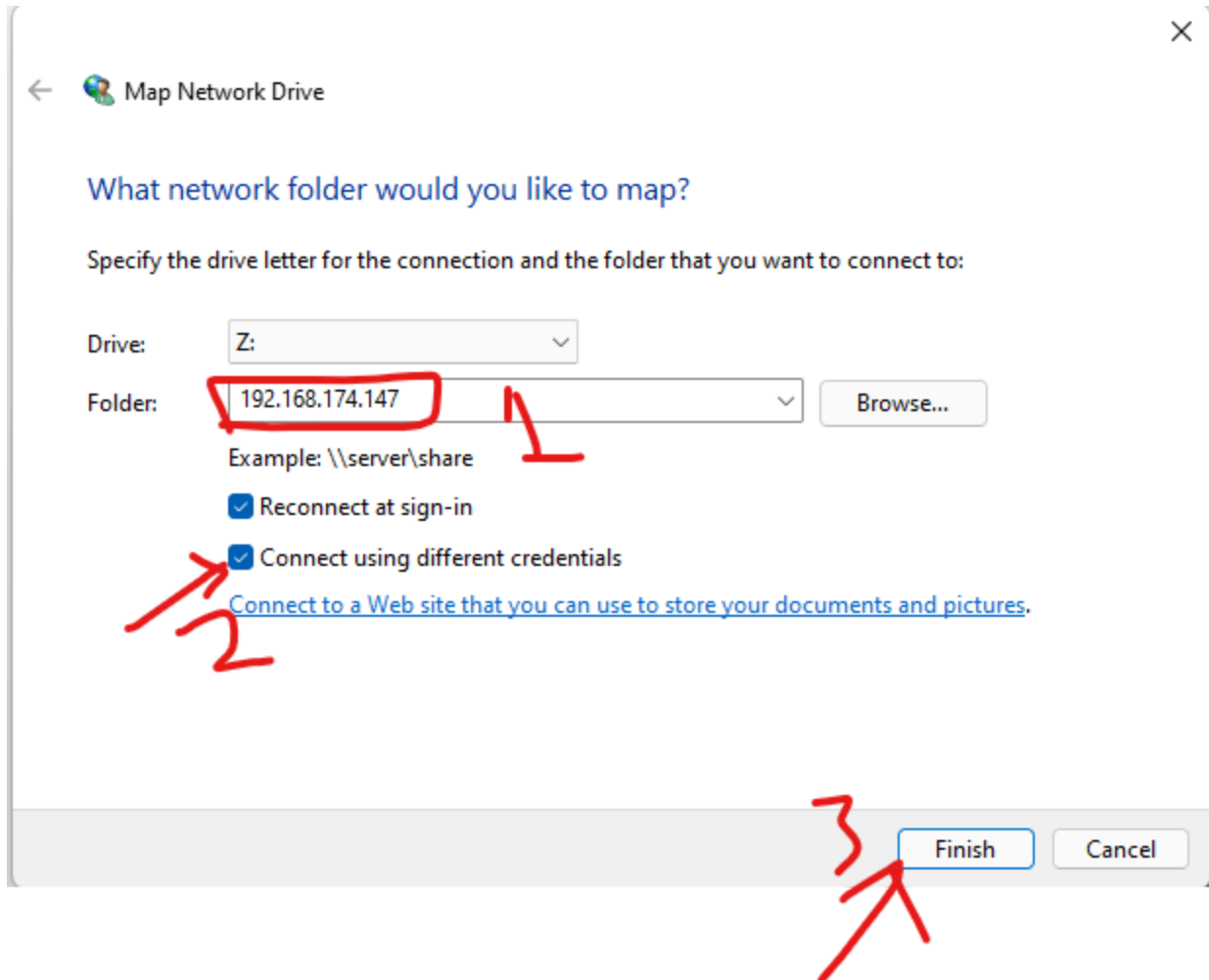
The next window suggests creating an ACL (access control list), so I'll choose one of the presets – “Select a preset ACL” and select “Restricted” from the list – then click “Continue”. After that, a new setting will appear on the right: click below to save it.



access the storage

#go to file explorer and click 3-dot >map network drive





The network drive is connected, so you can create a directory there and write some data to the drive.

Conclusion

TrueNAS is quite an interesting solution in terms of organizing your own network storage without paying too much. If you create a system like that on the basis of your old computer, you'll get a network-attached storage with a new file system ZFS and a bunch of NAS features.

